

NetLinx NI-Series Controllers

For Small or Medium Rooms (7, 8 or 15 Control Ports)
356 – 364

For Large or Multiple Rooms (30 or 31 Control Ports) 365 – 373

NetLinx Communication Gateways
(utilizes KNX communication protocol) 375

NetLinx Cards and Shells
(select the right card for the application) 374, 376

Accessories 377 – 383

CENTRAL CONTROLLERS

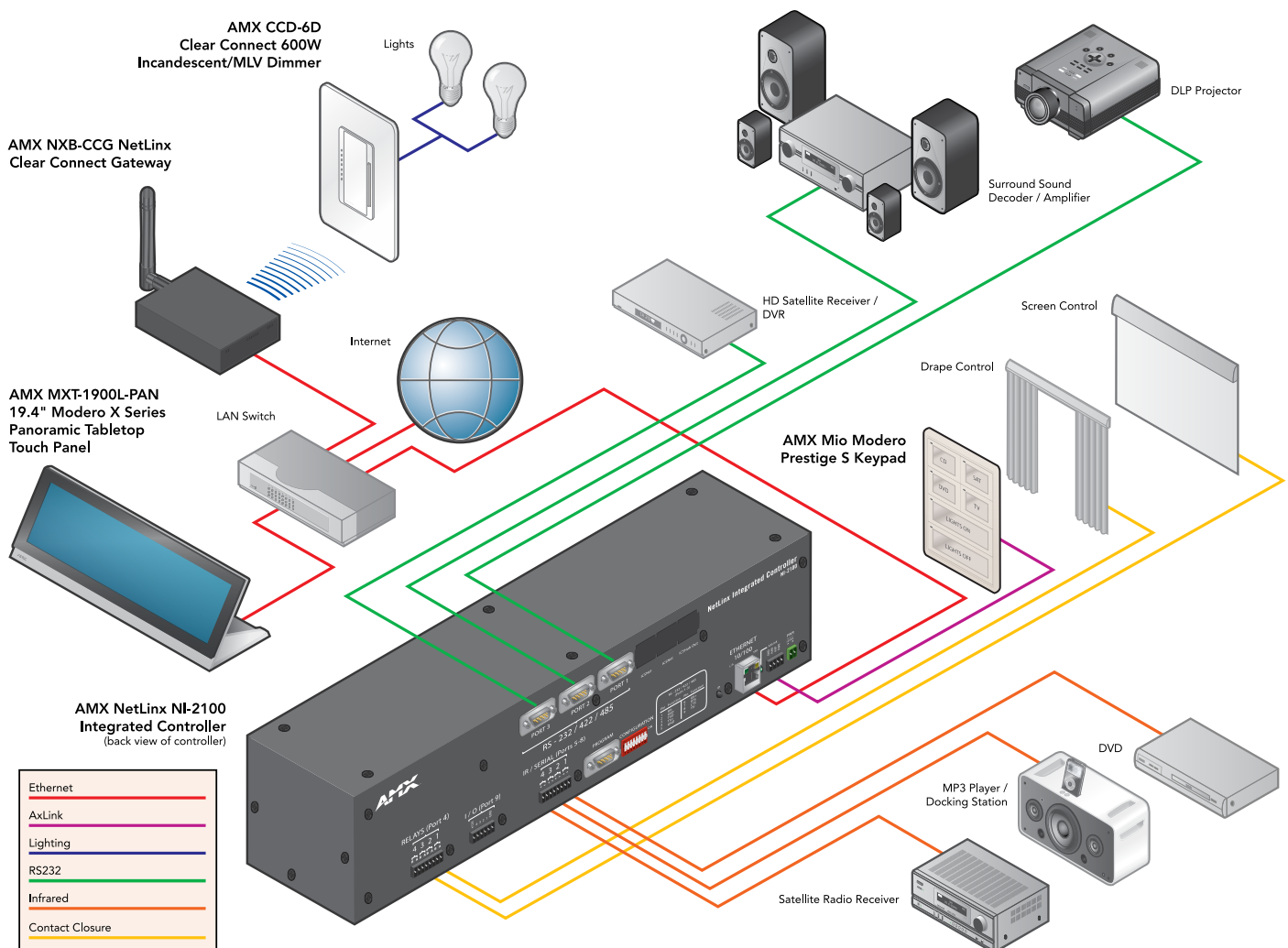
RENOWNED RELIABILITY

Ensuring Every Command is Carried Out the First Time

AMX Central Controllers are synonymous with reliability, flexibility, and security. As the brains of every AMX control system, the NetLink family of products are designed to be a true IT standards-based, secure solution with remote monitoring and management using a client-server architecture interfacing with the AMX Resource Management Suite software applications. Furthermore, our command architecture supports net-centric management of devices – which simplifies equipment management and maintenance and lowers total cost of ownership. In fact, they use the same VxWorks Real-Time Operating System to control space shuttles and defense systems.

SYSTEM DIAGRAM

NetLink Central Controllers can control large numbers of AMX and third party devices via RS232, IP, IR and Contact Closure.



In keeping with our philosophy of providing flexible and open solutions AMX provides 2 ways to use NetLinx controllers. We have a family of integrated controllers (the NI family) that come in prebuilt configurations. There are also a variety of components that can be used to extend the capabilities of NI controllers or alternatively to create a custom NetLinx master configuration with the exact specifications required for an installation.

Note: AMX has a family of development tools to help integrators program. These software applications range from AMXhome and AMXmeetingroom for simplified, wizard-like programming to NetLinx Studio for programming the most sophisticated control system solutions. And our drag-and-drop software, VisualArchitect, which offers programming flexibility, as well as an easy to use interface.

NetLinx NI-Series Controllers

CONTROLLERS COMPARISON CHART

FEATURE	NI-700	NI-900	NI-2100	DVX-2100HD	NI-3100 / NI-3100/256	DVX-2150/2155/ 3150/3155HD	NI-3101-SIG	NI-4100 / NI-4100/256
Integrated NetLinx Master	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Integrated A/V Switcher/Scaler	No	No	No	Yes	No	Yes	No	No
AxLink Interface	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ICSNet Interface	No	No	Optional	No	Optional	No	No	Yes
10/100 Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Digital Input/Output Ports	4	4	4	4	8	4* / 8**	8	8
RS-232/RS-422/RS-485 Ports	2	1	3	3	7	3* / 6**	6	7
IR/Serial Output Ports	1	3	4	4	8	4* / 8**	8	8
Relay Ports	-	-	4	4	8	4* / 8**	8	8
Expansion Card Slots	No	No	No	No	No	No	No	Yes
IR Receiver Port	Yes	Yes	No	No	No	No	No	No
Programming via Serial Port/Ethernet	Yes/Yes	Yes/Yes	Yes/Yes	USB/Yes	Yes/Yes	Yes/Yes	USB/Yes	Yes/Yes
Built-in Web Server	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Processor Speed	304 MIPS	304 MIPS	404 MIPS	404 MIPS	404 MIPS	404 MIPS	404 MIPS	404 MIPS
On-Board Memory RAM	64 MB	64 MB	64 MB	64 MB	64 MB/256 MB	256 MB	64 MB	64 MB/256 MB
Non-Volatile Memory	512 KB	512 KB	1 MB	1 MB	1 MB	1 MB	1 MB	1 MB
FLASH Memory	32 MB	32 MB	2 GB CF Card	256 MB	2 GB CF Card	256 MB	256 MB	2 GB CF Card
Rack Space	1 RU x 1/3	1 RU x 1/3	2 RU	2 RU	2 RU	3 RU	1 RU	3 RU

* DVX-2150/2155HD models ** DVX-3150/3155HD models

2 | 0 | 1 | 4

Serial • Relay • IR • Digital I/O

NI-700

NetLinX Integrated Controller

(FG2105-70)



OVERVIEW

The NI-700 unit is geared to meet the specific control and automation needs of a single room environment, in which both price and functionality are the driving requirements. The NI-700 is configured to control a limited number of video players, projectors, lights, thermostats, and other electronic equipment.

COMMON APPLICATIONS

Ideal for single-room environments with a limited number of devices such as classrooms, conference rooms, hotel rooms and other applications.

FEATURES

- Ultra-fast 304 MIPS processor
- 2 Configurable RS-232 / RS-422 / RS-485 Serial Ports
- 1 IR/Serial Port
- 1 IR Receiver Port
- 4 Digital I/O Channels
- 1 Ethernet 10/100 Port
- 1 AxLink Connector
- 64 MB RAM
- 32 MB Flash Memory
- 512 KB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training



AWARD WINNER

The NI-700 was awarded the "High Impact Product of the Year" from *CE Pro*.



D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

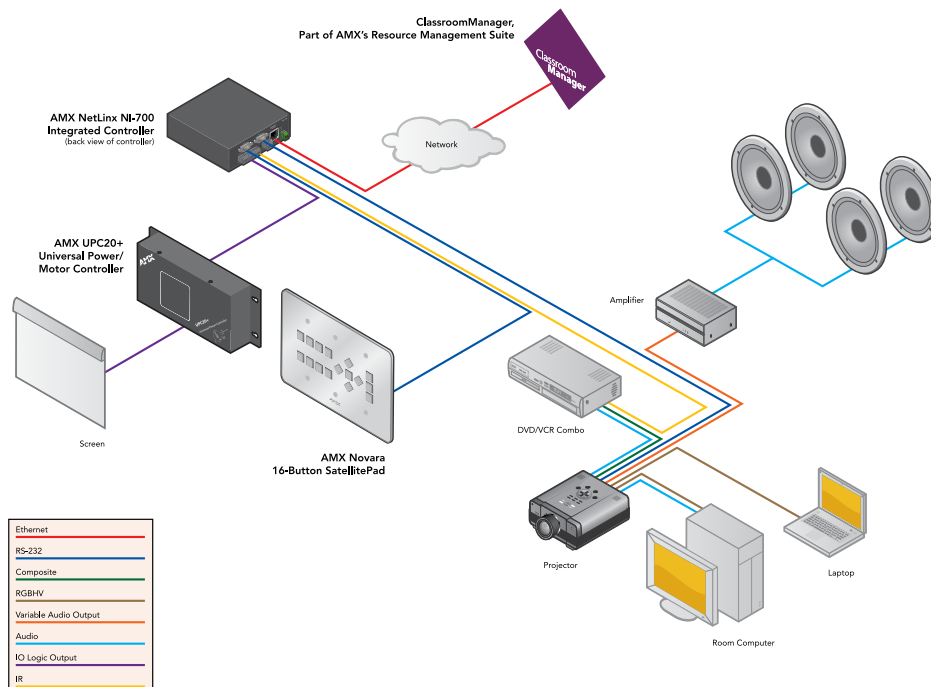
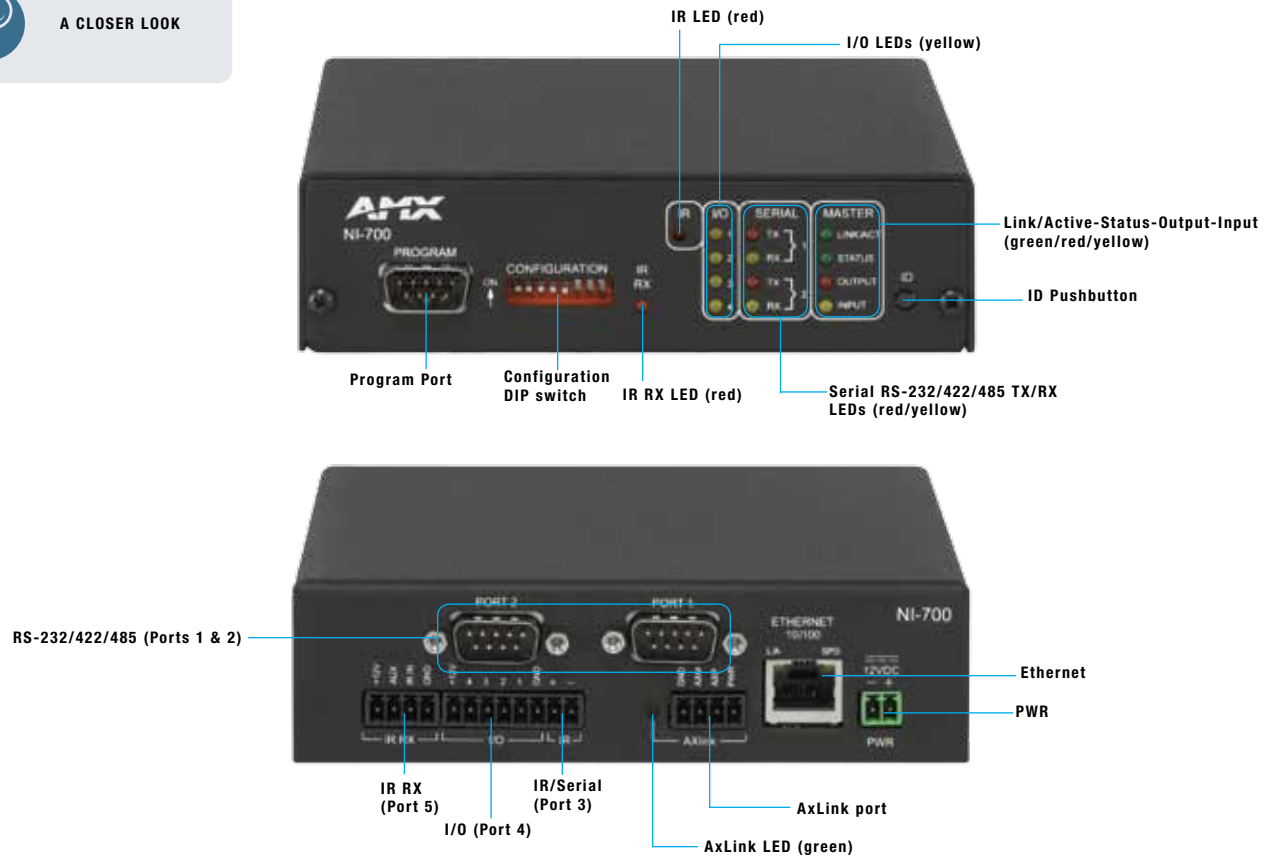


JITC TESTED

This product has been thoroughly tested for network security by the Joint Interoperability Test Command (JITC) division of the Defense Information Systems Agency (DISA) under Department of Defense (DoD) Directive 8500.01E, DoD Instruction 8500.2 and DISA Field Security Operation Security Technical Implementation Guides (STIG). It achieved a perfect score in the JITC IP Vulnerability testing with no High, Medium or Low impact findings.



A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 9/16" x 5 9/16" x 5 1/8" (4.01 cm x 14.10 cm x 13.00 cm)
- RU: 1

WEIGHT

1.30 lbs (590 g)

POWER

- 280 mA @ 12 VDC
- Power requirements are usage dependant

ENCLOSURE

Metal with black matte finish

ONBOARD MASTER

304 MIPS

CERTIFICATIONS

FCC Part 15 Class B, CE, and IEC 60950

FRONT PANEL COMPONENTS

- Program Port
- Configuration DIP Switch: Sets the communication parameters for the Program port
- IR RX LED: Red LED lights when IR data is being received via the rear IR RX port
- IR LED: Red LED lights during the transmission of IR or Serial data via the rear IR port
- I/O LEDs: Four yellow LEDs light when the rear I/O channels 1 - 4 are active. LED indicator for each I/O port reflects the state of that particular port
- Serial LEDs
- LINK/ACT: Green LED lights when the Ethernet cable is connected and an active link is established. This LED also blinks when receiving Ethernet data packets
- Status: Green LED lights when the Controller is programmed and communicating properly
- Output: Red LED lights when the Controller transmits data, sets channels sends data strings, etc.
- Input: Yellow LED lights when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- ID Pushbutton: Sets the NetLinX ID (Device only) assignment for the device

REAR PANEL CONNECTORS

- RS-232/422/485 (Ports 1 & 2)
- IR RX (Port 5)
- Digital I/O (Port 4)
- IR/Serial (Port 3)
- AxLink LED
- AxLink Port: 4-pin 3.5 mm mini-Phoenix (male) connector provides data and power to external control devices
- Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- Power Port

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 11.5 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix female PWR connector (41-5025)
- 4-pin 3.5 mm mini-Phoenix female connector (41-5047)
- 6-pin 3.5 mm mini-Phoenix female I/O connector (41-5063)
- CC-NIRC IR Emitter

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

IRX-PP38	Plasma Proof IR Sensor	(FG460)	348
PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
PSN4.4	4.4 Amp Power Supply	(FG423-45)	414
AC-RK	Accessory Rack Kit	(FG515)	410
AC-SMB	Surface Mounting Bracket	(FG525)	412
CC-232	RS232/422 Cables	(FG10-752-04)	420
CC-NIRC	IR Cables	(FG10-000-11)	420



1 | 0 | 3 | 4

Serial • Relay • IR • Digital I/O

NI-900

NetLinX Integrated Controller

(FG2105-90)



OVERVIEW

The NI-900 unit is designed to control and automate a variety of devices in single rooms or multiple small rooms and is capable of supporting devices with a variety of communication formats. It is configured to control a limited number of lights, thermostats, video displays and other equipment.

COMMON APPLICATION

Perfect for single rooms or two or more small rooms with a limited number of devices such as home theaters, MDUs, hotel rooms and other environments.

FEATURES

- 1 Configurable RS-232 / RS-422 / RS-485 Serial port
- 3 IR / Serial ports
- 1 IR Receiver Port
- 4 Digital I/O ports
- 2 Communication Networks: AxLink and Ethernet (TCP/IP)
- 304 MIPS processor speed
- 64 MB RAM
- 32 MB Memory
- 512 KB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



TRAINING AVAILABLE

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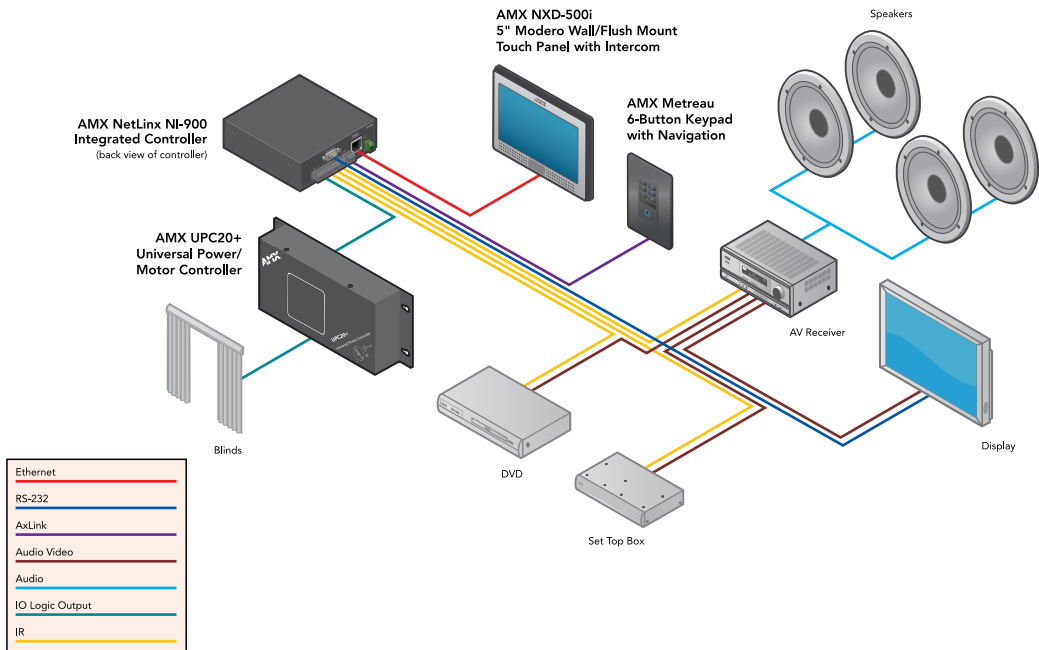
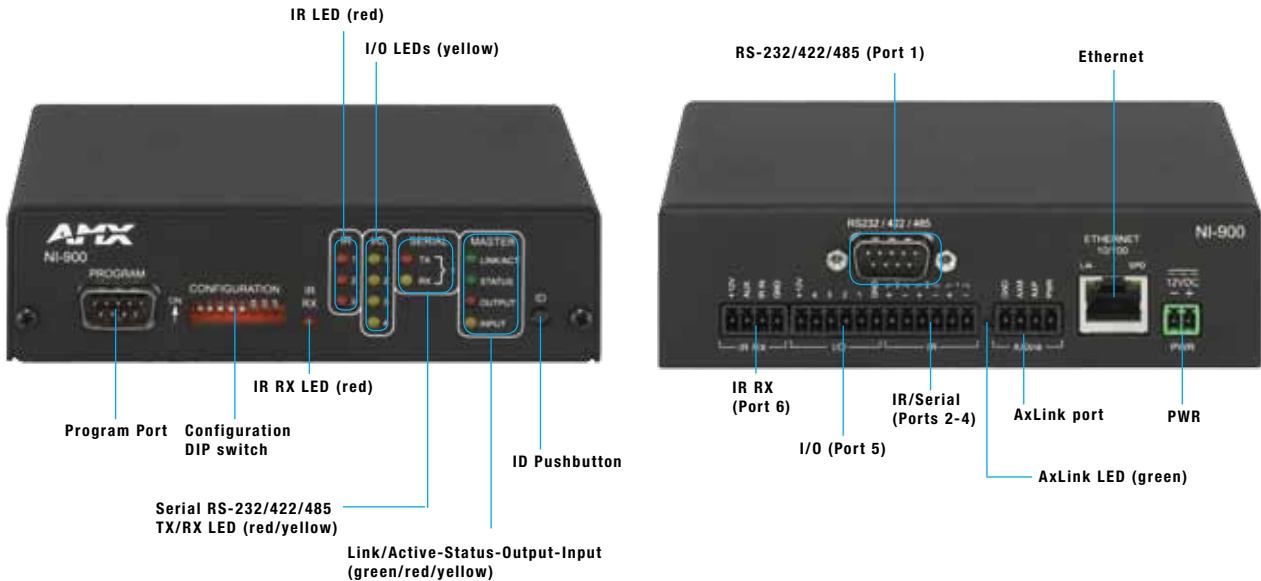


JITC TESTED

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A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 9/16" x 5 9/16" x 5 1/8" (4.01 cm x 14.10 cm x 13 cm)
- RU: 1

WEIGHT

1.30 lbs (590 g)

POWER

- 300 mA @ 12 VDC
- Power requirements are usage dependent

ENCLOSURE

Metal with black matte finish

ONBOARD MASTER

304 MIPS

CERTIFICATIONS

FCC Part 15 Class B, CE, and IEC 60950

FRONT PANEL COMPONENTS

- Program Port
- Configuration DIP Switch: Sets the communication parameters for the Program port
- IR RX LED: Red LED lights when IR data is being received via the rear IR RX port
- IR LEDs: Three red LEDs light during the transmission of IR or Serial data via the rear IR port
- I/O LEDs: Four yellow LEDs light when the rear I/O channels 1-4 are active. LED indicator for each I/O port reflects the state of that particular port
- Serial LEDs
- LINK/ACT: Green LED lights when the Ethernet cable is connected and an active link is established. This LED also blinks when receiving Ethernet data packets
- Status: Green LED lights when the Controller is programmed and communicating properly
- Output: Red LED lights when the Controller transmits data, sets channels, sends data strings, etc.
- Input: Yellow LED lights when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- ID Pushbutton: Sets the NetLinX ID (Device only) assignment for the device

REAR PANEL CONNECTORS

- RS-232/422/485 (Port 1)
- IR RX (Port 6)
- Digital I/O (Port 5)
- IR/Serial (Ports 2 - 4)
- AxLink LED
- AxLink Port: 4-pin 3.5 mm mini-Phoenix (male) connector provides data and power to external control devices
- Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- Power Port: 2-pin 3.5 mm mini-Phoenix (male) connector

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 12.3 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix female PWR connector (41-5025)
- 6-pin 3.5 mm mini-Phoenix female I/O connector (41-5063)
- Three CC-NIRC IR Emitters
- Two 4-pin 3.5 mm mini-Phoenix female connectors (41-5047)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

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IRX-PP38	Plasma Proof IR Sensor	(FG460)	348
PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
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AC-RK	Accessory Rack Kit	(FG515)	410
AC-SMB	Surface Mounting Bracket	(FG525)	412
CC-232	RS232/422 Cables	(FG10-752-04)	420
CC-NIRC	IR Cables	(FG10-000-11)	420

3 | 4 | 4 | 4
Serial • Relay • IR • Digital I/O

NI-2100

NetLinX Integrated Controller

NI-2100 Controller (FG2105-04)

NI-2100 Controller with ICSNet (FG2105-14)



OVERVIEW

The NI-2100 is ideal for control and automation of medium-sized rooms and multi-room applications. The NI-2100 has 64MB of onboard RAM and is Device Discovery enabled to simplify programming by standardizing device and function definitions, default touch panel button assignments, and control and feedback methods.

COMMON APPLICATION

The NI-2100 is a good fit for medium-sized rooms or multi-room applications in home theaters, whole homes, hotel rooms and other environments.

FEATURES

- 3 Configurable RS-232 / RS-422 / RS-485 Serial ports
- 4 Relays
- 4 IR / Serial ports
- 4 Digital I/O ports
- 2 Communication Networks: AxLink and Ethernet (TCP/IP)
- 404 MIPS processor speed
- 64 MB RAM
- 2 GB CompactFlash (upgradeable to 4 G)
- 1 MB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



TRAINING AVAILABLE

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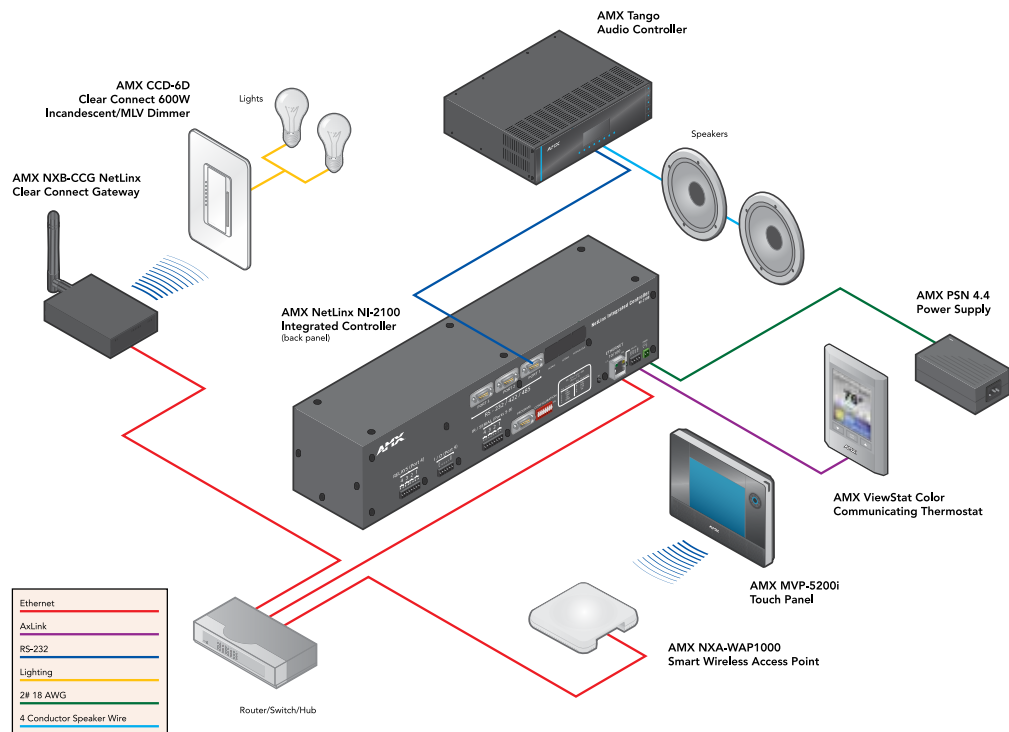
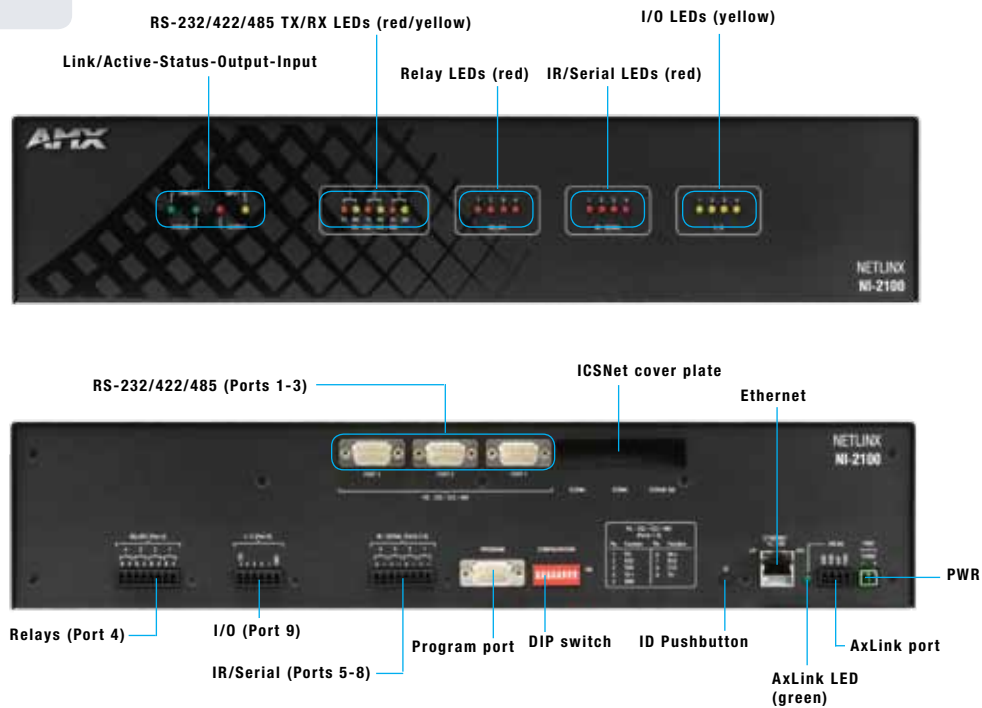


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A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 3 1/2" x 17" x 3 1/2" (8.8 cm x 43.2 cm x 8.8 cm)
- RU: 2

WEIGHT

4.50 lbs (2.04 kg)

POWER

700 mA @ 12 VDC

ENCLOSURE

Metal with black matte finish

MEMORY

- 64 MB SDRAM
- 1 MB of Non-volatile SRAM

COMPACT FLASH

2 GB Card or more (upgradeable)

ONBOARD MASTER

404 MIPS

CERTIFICATIONS

FCC Part 15 Class B, CE, and IEC 60950

FRONT PANEL COMPONENTS

- LINK/ACT: Green LED blinks when the Ethernet cables are connected and terminated correctly. Also blinks when receiving Ethernet data packets
- Status: Green LED blinks to indicate that the system is programmed and communicating properly
- Output: Red LED blinks when the Controller transmits data, sets channels and sends data strings, etc.
- Input: Yellow LED blinks when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- RS-232/422/485 LEDs
- Relay LEDs
- IR/Serial LEDs
- I/O LEDs
- Rack-mount brackets: Provides an installation option for the Integrated Controller to be mounted into an equipment rack, when used with the Installation Kit (KA2105-01)

REAR PANEL CONNECTORS

- RS-232/422/485 (Ports 1 - 3)
- ICSNet: Two RJ-45 connectors for ICSNet interface (provided by ICSNet daughter card)
- ICSHub Out: RJ-45 connector provides data to a Hub connected to the Controller (provided by ICSNet daughter card)
- Relay (Port 4)
- Digital I/O (Port 9)
- IR/Serial (Ports 5 - 8)
- Program Port
- Configuration DIP Switch: Sets the communication parameters for the Program port
- ID Pushbutton
- Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- AxLink LED: Green LED indicates the state of the AxLink port.
- AxLink Port: 4-pin 3.5 mm mini-Phoenix (male) connector that provides data and power to external control devices
- Power Port: 2-pin 3.5 mm mini-Phoenix (male) connector.

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 28.7 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix (female) PWR connector (41-5025)
- 4-pin 3.5 mm mini-Phoenix (female) AxLink connector (41-5047)
- 6-pin 3.5 mm mini-Phoenix female I/O connector (41-5063)
- 8-pin 3.5 mm mini-Phoenix female Relay connector (41-5083)
- Two CC-NIRC IR Emitters
- Two removable rack ears (62-2105-07)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
PSN4.4	4.4 Amp Power Supply	(FG423-45)	414
NXA-ICSNET	NetLinX ICSNet Communication Network Card	(FG2105-10)	383
NXA-CF2NI	CompactFlash Upgrade	(FG21116-xx)	382
CC-232	RS232/422 Cables	(FG10-752-04)	420
CC-NIRC	IR Cables	(FG10-000-11)	420

7 | 8 | 8 | 8
Serial • Relay • IR • Digital I/O

NI-3100

NetLinX Integrated Controller

NI-3100 Controller	(FG2105-05)
NI-3100/256 Controller with 256MB RAM	(FG2105-25)
NI-3100/256/ICS Controller with 256MB RAM and ICSNet	(FG2105-35)
NI-3100/ICS Controller with ICSNet	(FG2105-15)



OVERVIEW

With the ability to integrate a large number of devices, the NI-3100 controls a wide variety of components including audio/video conferencing, projectors, DVD and Blu-Ray players, lights, thermostats and other electronic equipment found in larger areas. With these technology-driven environments, the NI-3100 also provides solutions for future expansion and enables the addition of more devices and control capabilities. Offers higher performance with an ultra-fast processor, 64MB of onboard RAM and is AMX Device Discovery enabled.

COMMON APPLICATION

The NI-3100 unit is ideally suited to the requirements of larger areas or multiple rooms with advanced control and automation features.

FEATURES

- 7 Configurable RS-232 / RS-422 / RS-485 Serial ports
- 8 Relays
- 8 IR / Serial ports
- 8 Digital I/O ports
- 2 Communication Networks: AxLink and Ethernet (TCP/IP)
- 404 MIPS processor speed
- 64 MB RAM or 256 MB RAM
- 2 GB CompactFlash (upgradeable to 4 GB)
- 1 MB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



TRAINING AVAILABLE

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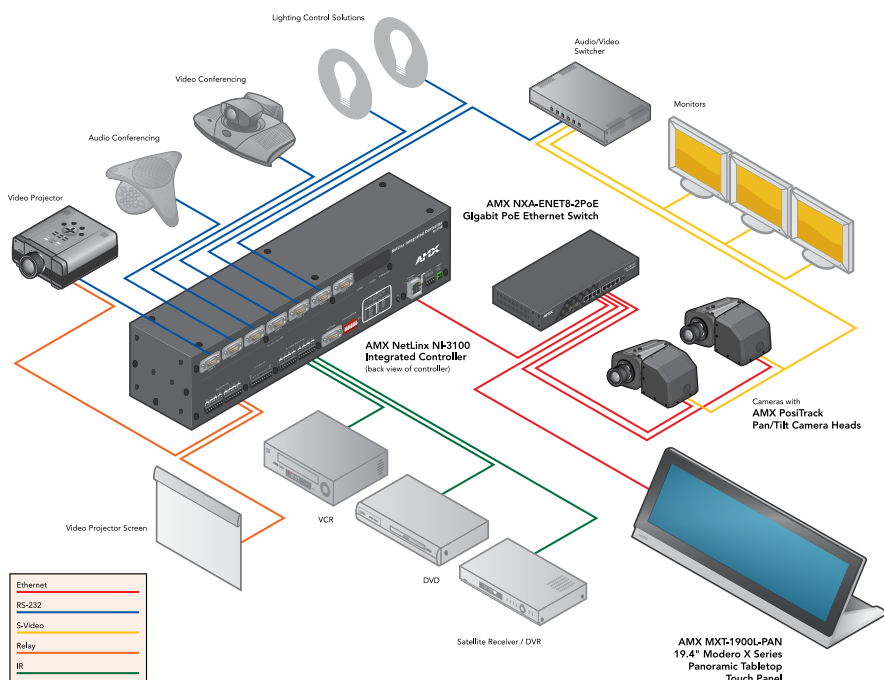
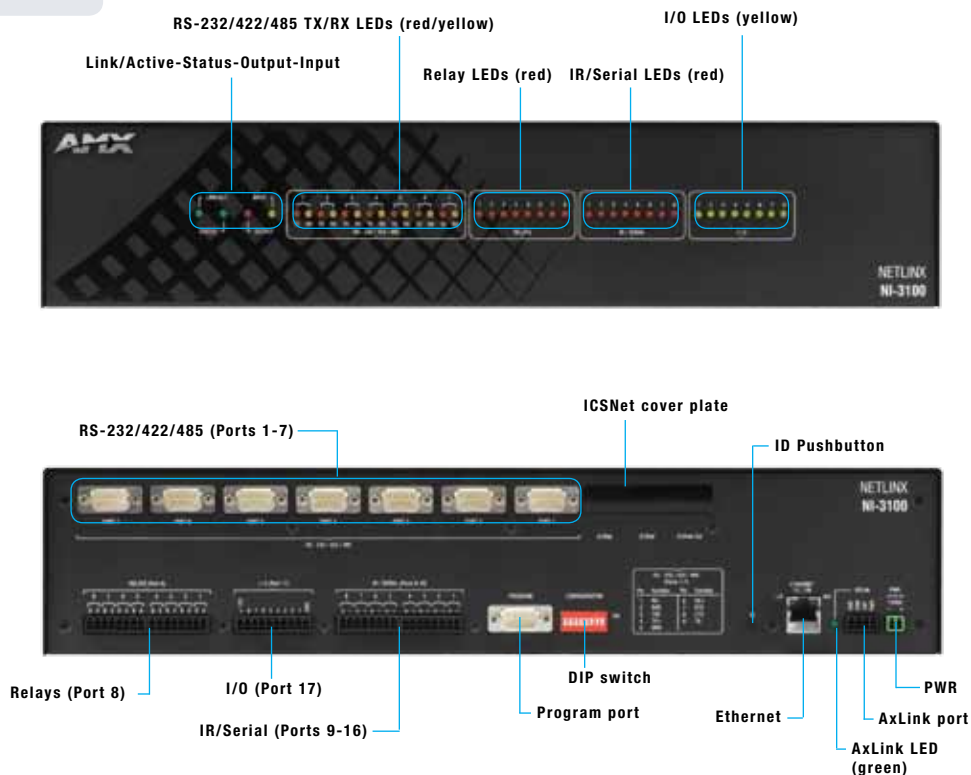


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A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 3 1/2" x 17" x 3 1/2" (8.8 cm x 43.2 cm x 8.8 cm)
- RU: 2

WEIGHT

4.55 lbs (2.06 kg)

POWER

900 mA @ 12 VDC

ENCLOSURE

Metal with black matte finish

MEMORY

- 64 MB SDRAM (FG2105-05 & FG2105-15)
- 256 MB RAM (FG2105-25 & FG2105-35)
- 1 MB of Non-volatile SRAM

COMPACT FLASH

512 MB Card or more (upgradeable)

ONBOARD MASTER

404 MIPS

CERTIFICATIONS

FCC Part 15 Class B, CE, and IEC 60950

FRONT PANEL COMPONENTS

- LINK/ACT
- Status: Green LED blinks to indicate that the system is programmed and communicating properly
- Output: Red LED blinks when the Controller transmits data, sets channels and sends data strings, etc.
- Input: Yellow LED blinks when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- RS-232/422/485 LEDs
- Relay LEDs
- IR/Serial LEDs
- I/O LEDs
- Rack-mount brackets: Provides an installation option for the Integrated Controller to be mounted into an equipment rack, when used with the Installation Kit (KA2105-01)

REAR PANEL CONNECTORS

- RS-232/422/485 (Ports 1 - 7)
- ICSNet: Two RJ-45 connectors for ICSNet interface (provided by ICSNet daughter card)
- ICSHub Out: RJ-45 connector provides data to a Hub connected to the Controller (provided by ICSNet daughter card)
- Relay (Port 8)
- Digital I/O (Port 17)
- IR/Serial (Ports 9 - 16)
- Program Port
- Configuration DIP Switch: Sets the communication parameters for the Program port
- ID Pushbutton
- Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- AxLink LED
- AxLink Port: 4-pin 3.5 mm mini-Phoenix (male) connector that provides data and power to external control devices
- Power Port: 2-pin 3.5 mm mini-Phoenix (male) connector

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 36.9 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix (female) PWR connector (41-5025)
- 4-pin 3.5 mm mini-Phoenix (female) AxLink connector (41-5047)
- 10-pin 3.5 mm mini-Phoenix (female) I/O connector (41-5107)
- Two 8-pin 3.5 mm mini-Phoenix female Relay connectors (41-5083)
- Two CC-NIRC IR Emitters
- Two removable rack ears (62-2105-07)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
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NXA-CF2NI	CompactFlash Upgrade	(FG21116-xx)	382
CC-232	RS232/422 Cables	(FG10-752-04)	420
CC-NIRC	IR Cables	(FG10-000-11)	420

6 | 8 | 8 | 8

Serial • Relay • IR • Digital I/O

NI-3101-SIG

Signature Series NetLinx® Integrated Controller

(FG2105-08)



OVERVIEW

With its gloss-black face, blue power bar and blue and white status LEDs, the NI-3101-SIG can be placed on open racks, open shelves, tables, home theaters or behind the scenes in a rack. Measuring just 1 rack unit (RU:1) high, the NI-3101-SIG frees up space for other components while the extended rack depth (10") simplifies rear connections.

With extremely fast 32-bit processing and 64MB of onboard RAM, the NI-3101-SIG is capable of processing thousands of control and automation commands per second. Whether your control requirements are simple or sophisticated, the NI-3101-SIG is fast, accurate and immediate. In addition, it features a convenient USB programming port to simplify configuration.

COMMON APPLICATION

The NI-3101-SIG is ideal for controlling devices in large areas and multiple rooms. Its sleek styling and professional showroom finish allow it to be displayed prominently in home theater environments or work equally well behind the scenes in a rack.

FEATURES

- 6 Configurable RS-232 / RS-422 / RS-485 Serial Ports
- 8 Relays
- 8 IR / Serial ports
- 8 Digital I/O ports
- 2 Communication Networks: AxLink and 10/100 Ethernet (TCP/IP)
- Integrated USB programming port
- 404 MIPS processor speed

- 64 MB RAM
- 256 MB Flash Memory
- 1 MB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



WATCH THE VIDEO

See the NI-3101-SIG in action by watching the video profile online at: www.amx.com/assets/videos/NI-3101-SIG.mp4



TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training



D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

RECOMMENDED ACCESSORIES

DESCRIPTION

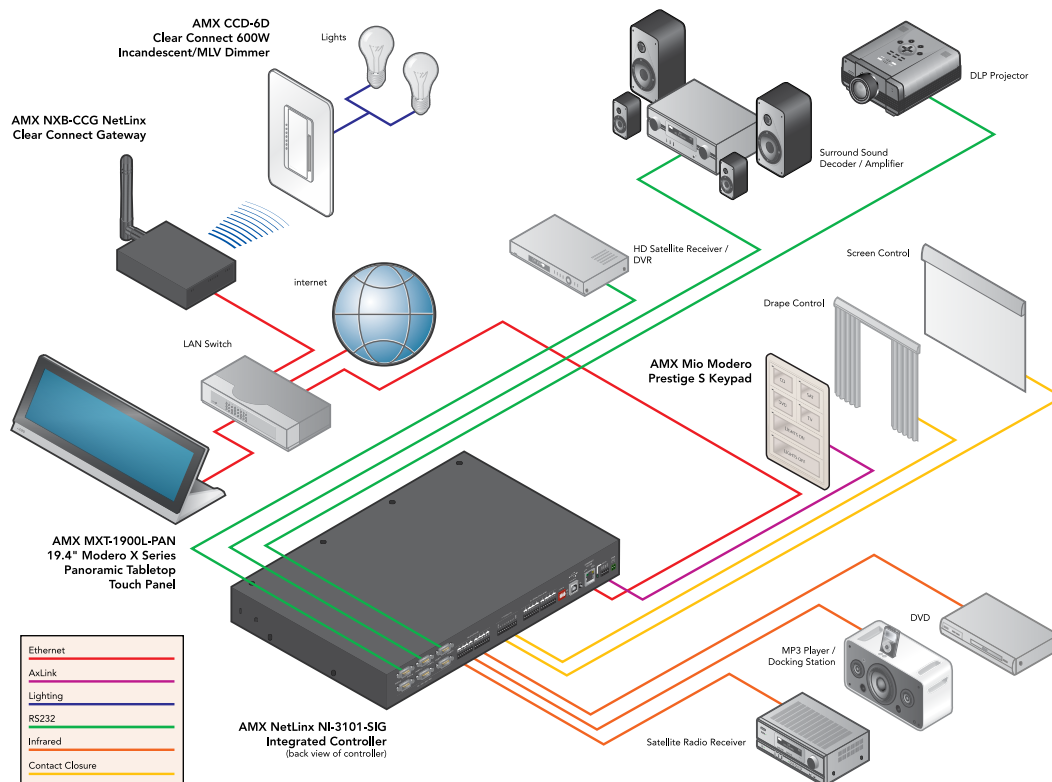
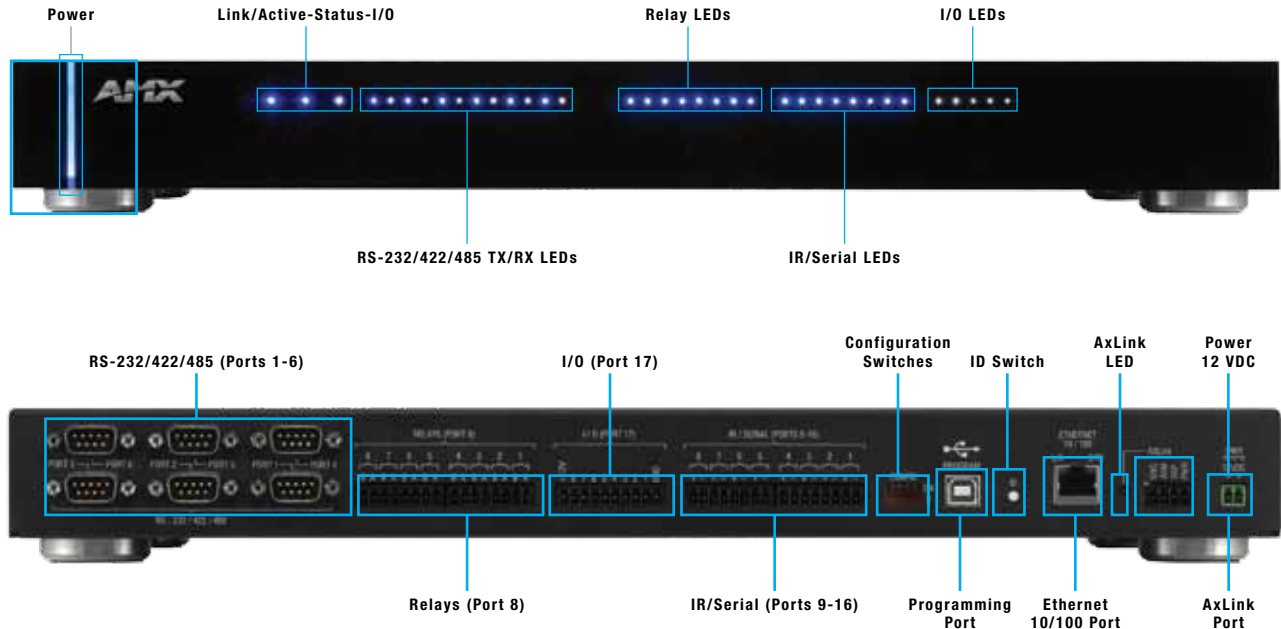
PART

PAGE

PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
PSN4.4	4.4 Amp Power Supply	(FG423-45)	414
CC-232	RS232/422 Cables	(FG10-752-04)	420
CC-NIRC	IR Cables	(FG10-000-11)	420
CC-NET	Cat5 Ethernet Cable	(FG10-051-10)	418
CC-USB-NI	USB Programming Cable	(FG10-2105)	418



A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 2" x 17" x 10" (5.1 cm x 43.2 cm x 25.4 cm)
- RU: 1

WEIGHT

6.95 lbs (3.15 kg)

POWER

900 mA @ 12 VDC

ENCLOSURE

Metal with black matte finish and translucent polycarbonate faceplate

ONBOARD MASTER

Processing Power: 32-bit microprocessor, 404 MIPS, Real-time operating system

Memory: Volatile – 64 MB, Non-Volatile – 1 MB, Flash – 256 MB

Networking:

- AxLink – 4-wire network (20.8 kbps) connects up to 255 Axxess devices, operates up to 3,000 feet of wiring and supplies 12 VDC power
 - Ethernet – Direct 10/100 BaseT Ethernet networking
- Ethernet Protocols used by NI-3101-SIG
- ICSP – peer to peer protocol used for both master-to-master and master-to-device communications
 - ICMP – To connect over a network, ping a NI-3101-SIG
 - Telnet – NetLinX telnet server provides a mechanism to configure and diagnose a NetLinX system
 - HTTP – NI-3101-SIG has a built-in web server that complies with the HTTP 1.0 specification and supports all of the required features of HTTP v1.1
 - FTP – NI-3101-SIG has a built-in FTP server that conforms to RFC
 - integration! Solutions – uses port 10500 for XML based communication protocol

CONTROL PORTS

- Six Serial data control ports (RS-232/422/485), with XON/XOFF and CTS/RTS, 300-115,200 baud
- Eight IR/Serial ports for control of up to 1.142 MHz carrier frequency
- Eight I/O channels for contact closure, 0-5 VDC voltage sensing, or interactive power sensing for IR ports
- Eight Relays - single-pole single-throw relay ports, independently controlled

FRONT PANEL COMPONENTS:

LED INDICATORS

- LNK/ACT: Blue LED lights when the Ethernet cables are connected and terminated correctly and blinks when receiving Ethernet data packets
- Status: Blue LED blinks to indicate that the system is programmed and communicating properly
- Output: Blue LED blinks when the Master transmits data, sets channels on and off, sends data strings, etc.
- Input: White LED blinks when the Master receives data from button pushes, strings, commands, channel levels, etc.

RS-232/422/485 LEDs

- Six sets of blue and white LEDs light to indicate Ports 1-6 are transmitting or receiving RS-232, 422, or 485 data
- TX LEDs (blue) blink when transmitting data
- RX LEDs (white) blink when receiving data

RELAY LEDs

Eight blue LEDs light to indicate relay channels 1-8 are active (closed) on Port 8

IR/SERIAL LEDs

Eight blue LEDs light to indicate the IR/Serial ports 9-16 are transmitting control data

I/O LEDs

Eight white LEDs light when the I/O channels 1-8 are active on Port 17

REAR PANEL COMPONENTS

POWER CONNECTOR

2-pin (male) green captive-wire connector for 12 VDC power supply

ETHERNET 10/100 PORT

RJ-45 Ethernet 10/100 connector. Automatically negotiates connection speed and whether to use half or full duplex mode

AXLINK CONNECTOR

Black 4-pin (male) captive-wire connector that provides data and power to external control devices (6 A max power rating)

PROGRAM PORT

USB connector that supports USB communications to a PC for system programming and diagnostics

CONFIGURATION DIP SWITCH

4-position DIP switch

ID BUTTON

Pushbutton sets device address ID (in conjunction with NetLinX Studio v1.2 build 200 or higher software program)

RS-232/422/485: (PORTS 1-6)

Six RS-232/422/485 control ports using DB-9 (male) connectors with XON/XOFF (transmit on/transmit off), CTS/RTS (clear to send/ready to send), and 300-115,200 baud

RELAYS (PORT 8)

- 8-channel single-pole single throw relay ports
- Each relay is independently controlled
- Supports up to 8 independent external relay devices
- Each relay can switch up to 24 VDC or 28 VAC @ 1 A
- Two 8-pin mini-Phoenix connectors (3.5 mm) provide relay termination

DIGITAL I/O (PORT 17)

- 8-channel binary I/O port for contact closure
- Each input is capable of 0-5 VDC voltage sensing. Input format is software selectable
- One 10-pin mini-Phoenix connector (3.5 mm) provide I/O port termination

IR/SERIAL (PORTS 9-16)

- Eight IR/Serial control ports support high-frequency carriers up to 1.142 MHz
- Each output is capable of two electrical formats: IR or Serial
- Eight IR/Serial data signals can be generated simultaneously
- Two 8-pin mini-Phoenix connectors (3.5 mm) provide IR/Serial port termination

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 36.9 BTU/hr

INCLUDED ACCESSORIES

- Removable rack ears allow for tabletop, under-counter, and front/rear rack mounting
- Removable feet give a finished look and provide spacing between stacked components
- Two 8-pin mini-Phoenix female connectors (41-5083)
- One 10-pin mini-Phoenix female connector (41-5107)
- Two CC-NIRC IR Emitters (FG10-000-11)
- One 4-pin 3.5 mm mini-Phoenix AxLink connector (41-5047)
- One 2-pin mini-Phoenix PWR connector (41-5025)
- One Relay Terminal Common Strip (41-2105-01)
- Four Rack mount screws (80-0186)
- Four washers (80-0342)

7 | 8 | 8 | 8
Serial • Relay • IR • Digital I/O

NI-4100

NetLinX Integrated Controller

NI-4100 Controller (FG2105-06)

NI-4100/256 Controller with 256MB RAM (FG2105-26)



OVERVIEW

The NI-4100 provides versatility with the ability to integrate the largest number of devices in the NI Series of Master Controllers, including projectors, lighting, DVD and Blu-Ray players, thermostats and other electronic equipment. In these technology-driven environments, this solution allows for the future addition of more devices and control capabilities. With a perfect mix of compatible formats, the NI-4100 offers flexibility and customization for businesses experiencing rapid growth and for homes that demand seamless integration of technology and design. The NI-4100 provides higher performance with a faster processor, 64MB of onboard RAM and Duet-compatibility.

COMMON APPLICATION

The NI-4100 is geared to meet the high-end control and automation requirements of the most sophisticated and complex commercial and residential installations.

FEATURES

- 7 Configurable RS-232 / RS-422 / RS-485 Serial ports
- 8 Relays
- 8 IR / Serial ports
- 8 Digital I/O ports
- 3 Communication Networks: AxLink, ICSNet and Ethernet (TCP/IP)
- 4 NetLinX Control Card Expansion slots that support all NXC control cards
- 404 MIPS processor speed
- 64 MB RAM or 256 MB RAM
- 2 GB CompactFlash (upgradeable to 4 GB)
- 1 MB Non-Volatile Memory
- AMX Device Discovery enabled
- JITC Compliant



TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training



D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



REVIT BIM

This product is part of the Autodesk Revit database and can be specified in designs for Building Information Modeling (BIM). Download the associated Revit .rfa file from the Autodesk SEEK Web site. It is also searchable under 'AMX' in any Autodesk application.



COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.

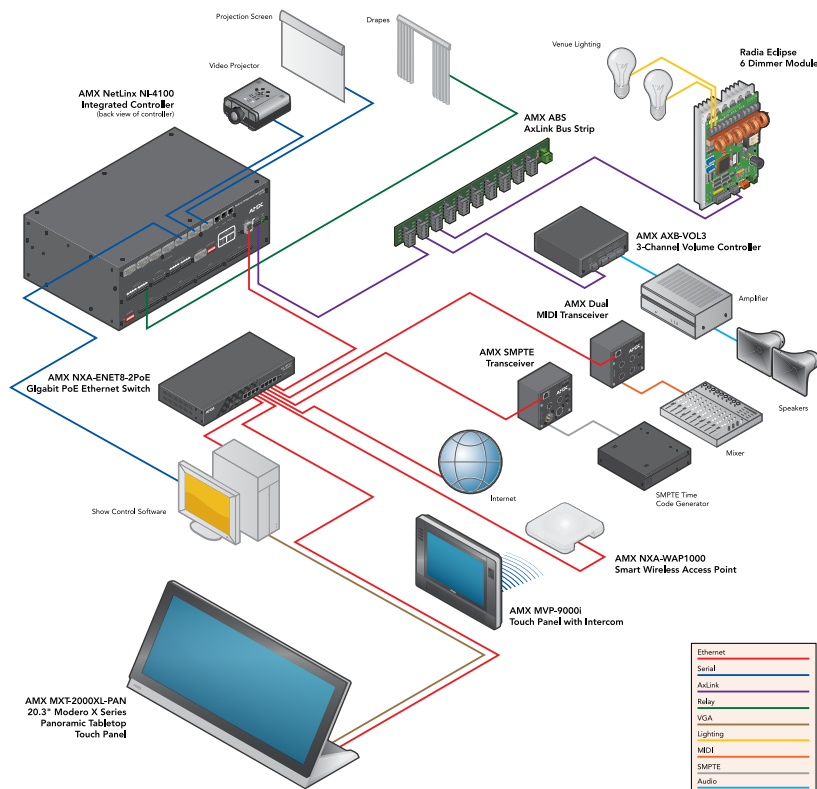
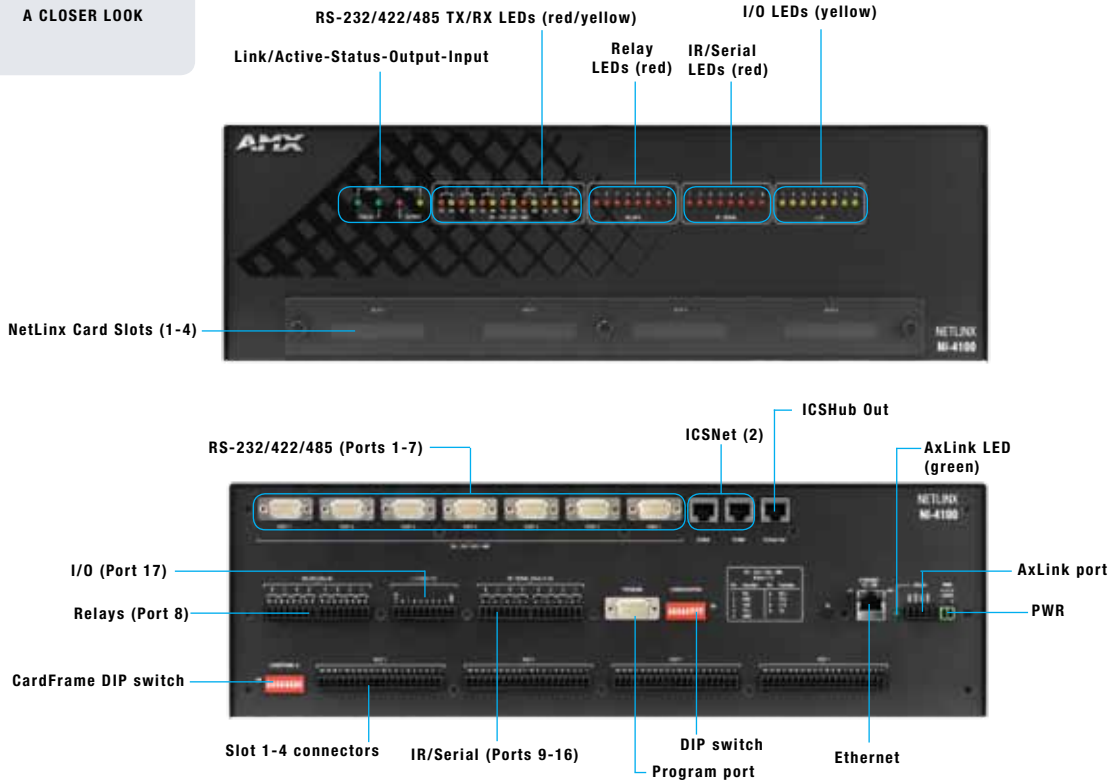


JITC TESTED

This product has been thoroughly tested for network security by the Joint Interoperability Test Command (JITC) division of the Defense Information Systems Agency (DISA) under Department of Defense (DoD) Directive 8500.01E, DoD Instruction 8500.2 and DISA Field Security Operation Security Technical Implementation Guides (STIG). It achieved a perfect score in the JITC IP Vulnerability testing with no High, Medium or Low impact findings.



A CLOSER LOOK



SPECIFICATIONS

DIMENSIONS (HWD)

- 5 3/16" x 17" x 9 5/16" (13.2 cm x 43.2 cm x 23.7 cm)
- RU: 3

WEIGHT

9.15 lbs (4.15 kg)

POWER

900 mA @ 12 VDC

ENCLOSURE

Metal with black matte finish

MEMORY

- 64 MB SDRAM (FG2105-06)
- 256 MB RAM (FG2105-26)
- 1 MB of Non-volatile SRAM

COMPACT FLASH

2 GB Compact Flash (upgradeable to 4 GB factory programmed)

ONBOARD MASTER

404 MIPS

CERTIFICATIONS

FCC Part 15 Class B, CE, and IEC 60950

FRONT PANEL COMPONENTS

- LINK/ACT: Green LED blinks when the Ethernet cables are connected and terminated correctly. Also blinks when receiving Ethernet data packets
- Status: Green LED blinks to indicate that the system is programmed and communicating properly
- Output: Red LED blinks when the Controller transmits data, sets channels, sends data strings, etc.
- Input: Yellow LED blinks when the Controller receives data from button pushes, strings, commands, channel levels, etc.
- RS-232/422/485 LEDs
- Relay LEDs
- IR/Serial LED
- I/O LEDs
- NetLink Control Card Slot 1 - 4
- Rack-mount brackets: Provides an installation option for the Integrated Controller to be mounted into an equipment rack, when used with the Installation Kit (KA2105-01)

REAR PANEL CONNECTORS

- RS-232/422/485 (Ports 1 - 7)
- ICSNet: Two RJ-45 connectors for ICSNet interface (included)
- ICSHub Out: RJ-45 connector provides data to a Hub connected to the Controller (included)
- Relay (Port 8)
- Digital I/O (Port 17)
- IR/Serial (Ports 9 - 16)
- Program Port
- Configuration DIP Switch: Sets the communication parameters for the Program port
- ID Pushbutton: Sets the NetLink ID (Device only) assignment for the device
- Ethernet Port: RJ-45 port for 10/100 Mbps communication. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps.
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets.
- AxLink LED: Green LED indicates the state of the AxLink port
- AxLink Port: 4-pin 3.5 mm mini-Phoenix (male) connector that provides data and power to external control devices
- Power Port: 2-pin 3.5 mm mini-Phoenix (male) connector
- CardFrame Number DIP Switch

ENVIRONMENTAL

- Operating Temperature: 0° C (32° F) to 50° C (122° F)
- Operating Humidity: 20% to 85% RH
- Heat Dissipation (Typical): 36.9 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix (female) PWR connector (41-5025)
- 4-pin 3.5 mm mini-Phoenix (female) AxLink connector (41-5047)
- 10-pin 3.5 mm mini-Phoenix (female) I/O connector (41-5107)
- Two 8-pin 3.5 mm mini-Phoenix (female) Relay connectors (41-5083)
- Two CC-NIRC IR Emitters
- Two removable rack ears (62-2105-07)

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
PSN4.4	4.4 Amp Power Supply	(FG423-45)	414
NXA-CF2NI	CompactFlash Upgrade for NI Series Controllers	(FG21116-xx)	382

NXC-ME260/64

NetLinx Master Ethernet Card

(FG2010-64)



OVERVIEW

The NetLinx NXC-ME260/64 Card supplies optimum control system performance. With the ability to respond 50 times faster than conventional control masters, the NXC-ME260/64 is propelled by the high-speed 257 MIPS ColdFire processor. The standard 32MB CompactFlash memory is expandable to 1G and beyond and Ethernet networking is built onboard. The NXC-ME260/64 also features enhanced Username and Password authentication, HTTPS and SSL certificate interaction, ICSP communication and encryption, and use of a pre-installed AMX SSL certificate.

FEATURES

- 1 AxLink Bus
- 1 Ethernet (TCP/IP) Port
- 2 ICSNet Ports
- 2 ICSHub Ports
- 257 MIPS processor speed
- 64 MB RAM
- 512 MB CompactFlash (upgradeable to 4 G)
- 1 MB Non-Volatile Memory

SPECIFICATIONS

DIMENSIONS (HWD)

- 1 5/16" x 5" x 8 13/16" (3.4 cm x 12.7 cm x 22.4 cm)
- RU: 1

WEIGHT

8.8 oz (250 g)

POWER

750 mA @ 12 VDC

MEMORY

- Compact Flash: 512 MB standard (upgradeable)
- Volatile: 64 MB
- Non-volatile: 1 MB

ENCLOSURE

Metal with black matte finish

FRONT PANEL COMPONENTS

- Program port: DB9 (male) connector that supports RS-232 communications to your PC for system programming and diagnostics. Set the port's communication speed with the Baud Rate DIP switch. Program ports are located on the front and rear panels of the Master Card for easy access. Because these ports share the same circuitry, they should never be used at the same time; doing so will result in communication and/or programming errors
- Status LED: Green LED blinks to indicate system and communication status
- Output LED: Red LED blinks when the Master Card transmits data, sets channels on and off, sends data strings, etc.
- Input LED: Yellow LED blinks when the Master Card receives data from button pushes, strings, commands, channel levels, etc.
- Program Port DIP Switch 8-position DIP switch on the front of the card for setting the baud rate for the Program port

REAR PANEL

- PWR connector: 2-pin (male) green captive-wire connector for 12 VDC power supply
- EXPANSION OUT: port RJ-11 connector connects to an AXB-SPE Slave Port Expander
- Ethernet 10/100 port: The (RJ-45) Ethernet Port default setting automatically negotiates the connection speed (10 Mbps or 100 Mbps) and whether to use half duplex or full duplex mode
- Ethernet 10/100 LEDs: Display communication activity, connections, speeds, and mode information.
- AxLink connector Black 4-pin (male) captive-wire connector that provides data and power to external control devices. Power rating = 6 A max; actual load depends on connected power supply
- AxLink Status LED: Green LED blinks to show AxLink and expansion port data activity
- PROGRAM port: 5-pin (male) gray connector for system programming and diagnostics. There is a Program port located on the front and rear of the Master Cards for easy access. Because these ports share the same circuitry, you should never use both ports at the same time. Doing so will result in communication and/or programming errors
- ICSNet connectors: Two RJ-45 connectors that provide power (500 mA) and data to external ICSNet devices
 - ICSNet LEDs - Indicate activity on that port.
- ICSHub In/Out connectors: Two RJ-45 connectors that provide data to other Hubs connected to the Master Card
 - ICSHub IN/OUT LEDs - Indicate activity on that port

ENVIRONMENTAL

Heat Dissipation (Typical): 30.7 BTU/hr

INCLUDED ACCESSORIES

- 2-pin 3.5 mm mini-Phoenix (female) PWR connector (41-5025)
- 4-pin 3.5 mm mini-Phoenix (female) AxLink connector (41-5047)
- 10-pin 3.5 mm mini-Phoenix (female) I/O connector (41-5107)
- Installation Kit (KA2105-01)
- Two 8-pin 3.5 mm mini-Phoenix (female) Relay connectors (41-5083)
- Two CC-NIRC IR Emitters
- Two removable rack ears (62-2105-07)

RECOMMENDED ACCESSORIES

	DESCRIPTION	PART #	PAGE #
NXS-MHS	Master/Hub Module Shell	(FG2009)	376
NXA-CFM	CompactFlash Upgrade for NXC-ME260/64	(FG2116-xx)	382
PSN6.5	6.5 Amp Power Supply	(FG423-41)	415
PSN4.4	4.4 Amp Power Supply	(FG423-45)	414
PSN2.8	13.5 VDC, 2.8 A Power Supply	(FG423-17)	414



NXB-KNX

KNX Communications Gateway

(FG2031-01)



OVERVIEW

Now Enables AMX Control Of KNX Devices

The NetLink NXB-KNX Communications Gateway allows NetLink Integrated Controllers the ability to seamlessly control, integrate and communicate with homes and buildings that utilize the KNX communication protocol. KNX is the world's first open, royalty free, and platform independent standard for home and commercial building control.

COMMON APPLICATION

Ideal for building control, ranging from lighting and shade control to various security systems, HVAC, water control, energy management, metering as well as audio and more.

FEATURES

- Index filtering tables for portability between systems
- Zero configuration support for immediate system recognition
- Two-Way Control
- Extend data-point type allows time, date, etc. to be captured and used in RMS
- 64 MB RAM / 256 MB FLASH
- Ethernet Interface to AMX control equipment

SPECIFICATIONS

DIMENSIONS (HWD)

- With feet: 1 5/8" x 5 1/2" x 4 1/8" (4.2 cm x 14.1 cm x 10.4 cm)
- Without feet: 1 1/2" x 5 1/2" x 4 1/8" (3.9 cm x 14.1 cm x 10.4 cm)
- RU: 1

WEIGHT

1.45 lbs (0.65 kg)

FRONT PANEL COMPONENTS

- Status LED (green): Blinks once a second to indicate that the unit has powered up. Any state other than blinking once a second indicates the unit is either not powered, or has not completed boot up
- KNX LED (green): Solid on indicates power is on and the unit is connected to KNX bus
- Output LED (red): Lights to indicate traffic from the NXB-KNX to the KNX bus
- Input LED (yellow): Lights to indicate traffic from the KNX bus to the NXB-KNX

REAR PANEL CONNECTORS

- KNX 2-pin captive-wire connector
- Ethernet Port - 10/100 Ethernet with PoE. LEDs show communication activity, connection status, speeds, and mode information:
 - SPD (speed) - Yellow LED lights On when the connection speed is 100 Mbps and turns Off when the speed is 10 Mbps
 - L/A (link/activity) - Green LED lights On when the Ethernet cables are connected and terminated correctly, and blinks when receiving Ethernet data packets

POWER

- PoE powered - no local Power Supply needed
- IEEE 802.3af Compliant

MEMORY

- 64 MB of RAM
- 256 MB of FLASH

ENVIRONMENTAL

- Operating Temperature: 32°F to 104°F (0°C to 40°C)
- Relative Humidity: 5% to 85% non-condensing
- Intended for indoor use only

CERTIFICATIONS

FCC Class B, CE, IEC60950, RoHS

INCLUDED ACCESSORIES

- Rubber feet
- Green 2-Pin 5mm Phoenix connector with captive screws



A CLOSER LOOK

Device Status LEDs



2-pin captive-wire connector for control interface

PoE Ethernet Port for network data/power

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

PS-POE-AF

PoE Injector

(FG423-80)

416

NXS-MHS

Master/Hub Module Shell

(FG2009)



OVERVIEW

The NXS-MHS Master/Hub Module Shell is the enclosure for the NetLinX Processor ICSNet and ICSHub Cards. The NXS-MHS accommodates one card and comes complete with faceplates for the Master and the Hub.

SPECIFICATIONS

DIMENSIONS (HWD)

- 1 1/2" x 5 9/16" x 8 3/4" (3.8 cm x 14.1 cm x 22.2 cm)
- RU: 1

WEIGHT

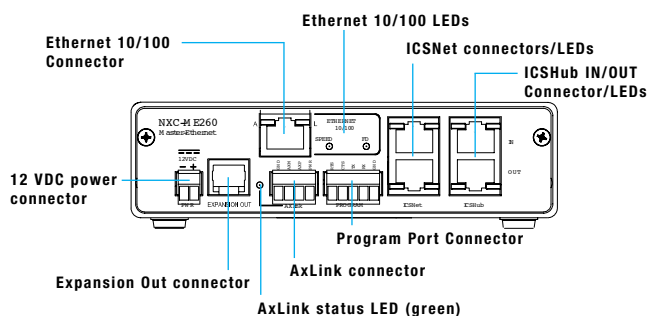
1.4 lbs (630 g)

ENCLOSURE

Metal with black matte finish



A CLOSER LOOK



RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

NXC-NH

ICSNet Hub Card

(FG2060)

NXS-NMS

NetModule Shell

(FG2009-10)



OVERVIEW

With the NXS-NMS NetModule Shell, one NetLinX Control Card can be installed, providing connectivity to the NetLinX bus via ICSNet connections. The NXS-NMS is a simple, economical option for integrating additional functionality into control systems, and it provides an enclosure for installing NetLinX (NXC) Control Cards.

FEATURES

- Control connector: 20-pin black (male) connector that connects the NetModule Shell to external devices. These connectors are keyed to ensure proper installation
- ICSNet RJ-45 connectors: Receives power and data from a NetLinX Master/Hub ICSNet Port. An ICSNet port on a NetLinX Master or Hub supplies up to 500 mA at 12 V for module power
- 12 VDC power supply connectors: Two male 2-pin (green) connectors for 12 VDC power



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 1/2" x 5 9/16" x 9 1/4" (3.8 cm x 14.1 cm x 23.5 cm)
- RU: 1

WEIGHT

2.15 lbs (980 g)

POWER

+12 VDC

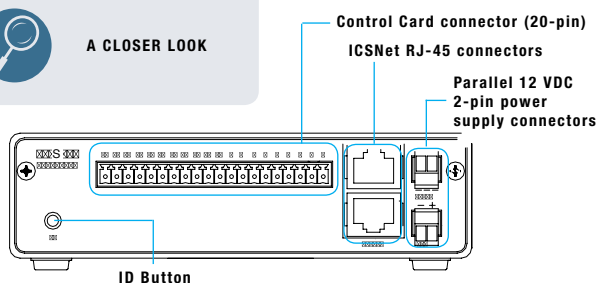


QUICK TIP

The ID button on the rear panel can be programmed with the NetLinX Studio software to assign new Device and System numbers for the module.



A CLOSER LOOK



AXB-232++

RS-232/422/485 Interface

(FG5761-10)



OVERVIEW

While this controller can serve as a conventional RS-232/422 control port, it is also able to run its own Axxess application program – an exclusive AMX product feature. Source specific programming, such as video switchers, laserdisc players and video codecs, can be handled by the AXB-232++ to deliver a modular solution for system programming.



SPECIFICATIONS

DIMENSIONS (HWD)

1 1/2" x 5 9/16" x 5 7/16" (38 mm x 140 mm x 140 mm)

WEIGHT

1.1 lbs (499 g)

ENCLOSURE

Metal with black matte finish

CONTROL PORT

RS-232/422/485 port (300-115,200 baud), XON/XOFF, CTS/RTS

BUFFERS

1,000 byte serial input buffer; 1,000 byte AxLink buffer

INDICATORS

Three status LEDs indicate transmit, receive, and AxLink

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

AC-RK

Accessory Rack Kit

(FG515)

410

CC-232

Serial Communication Cable

(FG10-752-04)

420

AXB-DMX512

DMX512 Interface

(FG5927)



OVERVIEW

The AXB-DMX512 creates a bi-directional DMX512-to-AxLink connection, transmitting and receiving up to 512 DMX channels. Onboard processing and memory create as many as 96 channel groups, eight faders, and 72 presets (284 by adding extended memory), as well as soft-patch channels. A DMX lighting board can operate in tandem with the AXB-DMX512, generate levels for storing presets, or bypass the AXB-DMX512 for direct control of channels.



SPECIFICATIONS

DIMENSIONS (HWD)

1 1/2" x 5 9/16" x 5 7/16" (38.4 mm x 141 mm x 138.4 mm)

WEIGHT

1.1 lbs (499 g)

ENCLOSURE

Metal with black matte finish

CONTROL PORT

DMX512 transmit and receive

INCLUDES

Front-panel setup switches and status LEDs

RECOMMENDED ACCESSORIES

DESCRIPTION

PART

PAGE

AC-RK

Accessory Rack Kit

(FG515)

410

AXB-IRS4

IR/Serial Interface, 4 Ports

(FG5914)



OVERVIEW

The AXB-IRS4 operates as an AxLink bus device or as an independent RS-232-to-IR interface. The four IR ports can be set up for IR or wired serial operation. Any two ports can send commands at the same time; internal firmware stacks any remaining IR pulses and executes them in sequence. Each unit emulates four AxLink devices.



SPECIFICATIONS

- DIMENSIONS (HWD) 1 1/2" x 5 1/2" x 5 1/2" (38 mm x 140 mm x 140 mm)
- WEIGHT 1.1 lbs (499 g)
- ENCLOSURE Metal with black matte finish
- CONTROL PORT
- Four IR/serial ports
 - One AxLink or one RS-232 port (300–19,200 baud) to receive external control commands
- INCLUDES
- Battery-backed IR memory, up to 200 commands per port
 - Front-panel setup switches and status LEDs
 - Two CC-IRC or CC-SER emitters

RECOMMENDED ACCESSORIES

DESCRIPTION	PART #	PAGE #
Accessory Rack Kit	(FG515)	410
Serial Communication Cable	(FG10-752-04)	420

AXB-MIDI

MIDI Interface

(FG5913)



OVERVIEW

The versatile AXB-MIDI can receive data from two independent MIDI IN (A, B) ports to provide automated control of audio mixers, routers and other MIDI-compatible devices. MIDI "IN A" and "IN B" are combined with "THRU" and "OUT," which can be re-patched under software control. System-generated MIDI commands are sent to "OUT."



SPECIFICATIONS

- DIMENSIONS (HWD) 1 1/2" x 5 9/16" x 5 7/16" (38.4 mm x 141 mm x 138.4 mm)
- WEIGHT 1 lb (454 g)
- ENCLOSURE Metal with black matte finish
- CONTROL PORT
- MIDI IN A, MIDI IN B, MIDI OUT, MIDI THRU INCLUDES
 - Five LEDs for AxLink, MIDI A IN, B IN, OUT, and THRU
 - Front-panel setup switches and status LEDs
- POWER 12V DC, 100 mA

RECOMMENDED ACCESSORIES

DESCRIPTION	PART #	PAGE #
Accessory Rack Kit	(FG515)	410



AXB-VOL3

3-Channel Volume Controller

(FG5756)



OVERVIEW

The AXB-VOL3 controls three audio volume channels. Each line-level channel, opto-isolated from system ground, can be configured for balanced or unbalanced line operation. It is programmable for 128 steps of audio level, audio mute, variable ramp speed and level presets.



SPECIFICATIONS

- DIMENSIONS (HWD)
1 1/2" x 5 7/16" x 5 7/16" (38.4 mm x 141 mm x 138.4 mm)
- WEIGHT
1.1 lbs (499 g)
- ENCLOSURE
Metal with black matte finish
- AUDIO PORTS
- Three independent line-level audio in and out ports, balanced or unbalanced
 - THD of less than 0.008%, -72 dB at full attenuation (mute)
- INCLUDES
- Front-panel setup switches and status LEDs
 - Resistors for 600 ohm termination

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
AC-RK	Accessory Rack Kit	(FG515)	410

AXB-REL8

Relay Controller

(FG5774)



OVERVIEW

The AXB-REL8 controls closure-activated devices, acting as an eight-channel relay control port on the AxLink bus.



SPECIFICATIONS

- DIMENSIONS (HWD)
1 1/2" x 5 1/2" x 5 1/2" (38 mm x 140 mm x 140 mm)
- WEIGHT
1.1 lbs (499 g)
- ENCLOSURE
Metal with black matte finish
- CONTROL PORT
Eight relays, normally open, rated at 750 mA, 28 VAC/24 VDC
- INCLUDES
- Front-panel device addressing switches and status LEDs
 - Metal tab strips for comming adjacent relays

RECOMMENDED ACCESSORIES	DESCRIPTION	PART #	PAGE #
AC-RK	Accessory Rack Kit	(FG515)	410

AC-SMB

Surface Mounting Bracket

(FG525)



OVERVIEW

These L-shaped brackets can be oriented to align flush with either the top or bottom surface and allow users to mount devices to almost any flat surface; floor, ceiling, wall, table or wherever is convenient for an installation. AC-SMB brackets can be used



with NI-700/900 controllers, MAX-CSE, MAX-CSD10, NXA-AVB, NXA-AVB/ETHERNET, and IS-SPX-1000.

AC-RK

Accessory Rack Kit

(FG515)



OVERVIEW

The Accessory Rack Kit holds up to three NetLinx modules and measures only one rack unit in height.



SPECIFICATIONS

DIMENSIONS (HWD)

- 1 3/4" x 19" x 1/2" (4.4 cm x 48.3 cm x 1.3 cm)
- RU: 1



TRAINING AVAILABLE

For important installation, configuration and programming techniques, AMX University training is available. Just visit www.amx.com/training



D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.

NXP-CPI16

NetLinX® Custom Panel Interface

(FG2410)



OVERVIEW

The NetLinX Custom Panel Interface provides a direct ICSNet connection to custom control panels. It's pin-for-pin compatible with devices that were designed for use with the AXP-CPI16 card (designed for integration with an Axxess Control System). Two 20-pin headers provide ribbon cable wiring or direct-connect insertion to circuit boards, providing inputs for up to 16 closures and 16 feedback outputs for LEDs. Under software control, the LED outputs can act as drivers to 8-segment bargraphs or as discrete outputs for feedback. In addition, the NXC-CPI16 also includes two quadrature inputs for mechanical or optical rotary encoders, used to control variable levels such as volume and lights, or lens focus and zoom.

COMMON APPLICATION

The NXP-CPI16 is a versatile, useful device for both custom panel and contact-closure applications.

FEATURES

- Integrates custom panels with 16 closure inputs and 16 LED outputs; pin-for-pin compatible with panels designed for AXP-CPI16
- Operates as a low-cost closure interface
- Acts as a driver for up to two 8-segment LED bargraphs; each bargraph uses eight of the 16 LED outputs
- Allows precise digital control of up to two levels from quadrature inputs
- Accepts mechanical or optical rotary encoders
- Offers programmable level response, provides software-driven performance adjustment and switchable coarse/fine level control



SPECIFICATIONS

DIMENSIONS (HWD)

2 3/4" x 1 7/8" x 1 3/8" (7.0 cm x 4.7 cm x 3.6 cm)

WEIGHT

- Device: 8.10 oz (229.6 g)
- Total Shipping: 1 lb (453.6 g)

POWER

12 VDC; maximum draw of 300 mA

INPUT CONNECTORS

- Indicator power: Two-pin 3.5 mm captive wire
- I/O Headers: Two 20-pin headers, 8 I/O channels each (16 closure inputs activated with GND or TTL Low (< 0.8 V)). Open collector outputs (0-28 VDC). Inputs are sampled approximately every 10 msec
- Rotary Encoder inputs: 2 Quadrature inputs on a 2 x 3 header (6-pin), two encoder inputs (4-pin) with a +5 V supply pin (supplying up to 100 mA) and a GND pin

ICSNET

- Two RJ-45 connectors for ICSNet connection ID BUTTON
- Generates an event from the CPI16 to allow you to assign new device numbers using the ID mode in NetLinX Studio

LED

ICSP status indicator (green)

OPEN COLLECTOR OUTPUTS

- 16-open collector outputs, acting as a switch to ground, up to 100 mA.
- Outputs can be connected to voltages ranging between 0 and + 28 V.
- Each output is updated every 10 msec

INCLUDED ACCESSORIES

- 6-pin header with 3 feet (0.914) of ribbon cable
- Two mating 20-pin headers, each with 3 feet of ribbon cable attached
- One green 2-pin 3.5 mm pitch captive wire connector for external indicator power

NXA-CF2NI

CompactFlash Upgrade for NI-X100 Series Controllers

NXA-CF2NI4G 4 GB CompactFlash Upgrade (FG2116-07)



OVERVIEW

The NXA-CF2NI is the perfect solution when more FLASH storage memory is needed in your NI-2100, NI-3100, or NI-4100 NetLinx controller.



NXA-CFM

CompactFlash Upgrade for NXC-ME260/64

NXA-CFM4G 4 GB CompactFlash Upgrade (FG2116-06)



OVERVIEW

The NXA-CFM is the perfect solution when more FLASH storage memory is needed in your NXC-ME260/64 NetLinx controller.



NXA-ICSNET

NetLinX ICSNet Communication Network Card

(FG2105-10)



OVERVIEW

The optional ICSNet communication network card from AMX provides the NI-2100 and NI-3100 NetLinX Integrated Controllers optional ICSNet communication network capability.

FEATURES

- Easily installed and adds ICSNet capability instantly
- Comes standard and pre-installed with the NetLinX NI-2100/ICS, NI-3100/ICS and NI-4100 Integrated Controllers
- Handles wiring runs of up to 1,000 feet for each ICSNet run
- Employs industry-standard Cat-5 wiring and connections



SPECIFICATIONS

DIMENSIONS (HWD)

2 3/8" x 2 3/8" x 1 3/8" (6.1 cm x 6.1 cm x 3.6 cm)

WEIGHT

1.2 oz (34.02 g)



D-TOOLS CERTIFIED PRODUCT

This product can be found in the D-Tools manufacturer product database and specified as a third party device when building and proposing a system using D-Tools System Integrator software.



COUNTRY OF ORIGIN: MEXICO

To satisfy the requirements/regulations of existing or future government programs, this two-letter code is being provided to designate the country of origin for this product.